The role of the public sector in smart urban development – Sheffield's strategy

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Sheffield

570,000 people
1.8m+ city region population
70,000 students
30% of workforce aged under 30

























Distinctive City



















JAYWING















The association for the people and businesses of Sheffield's digital industries.

-connect -represent -promote



CIIr Olivia Blake
Deputy Leader
Sheffield City Council

Portfolio Lead for Digital

"We recognise the importance of the digital sector in generating jobs and growth for the city, but also in helping to work with the public sector to enable residents to thrive.

Working with Sheffield Digital will enable us to build a coalition for Sheffield that can take the digital sector in the city to the next level."

Building Sheffield's Digital Coalition – 'dotSHF'



The origins of a digital coalition for Sheffield

There was a strong ambition for Sheffield to be a leading Digital City

BUT, there was no agreed narrative about what this meant, what Sheffield's focus in the Information Economy was nor was there clear city leadership (that's not just the Council) on this.

HOWEVER, there is a thriving digital community in Sheffield doing awesome things across the creative and digital sector, digital skills and inclusion, all with a huge will to make the ambition meaningful.

Sheffield's Digital Coalition

THEREFORE, we needed to get some coordinated focus on amplifying the digital activity already happening in Sheffield so we could move the city off the cusp of a digital boom into the middle of one.

What is the coalition?

The is everyone in the city who wants to contribute to building a Digital Sheffield – we call it 'dotSHF – Sheffield's Digital Coalition'.

Much activity is already happening, and harnessing and amplifying this is a key part of the strategy.

The council as the key, democratic organisation should play a lead, enabling, facilitating and connecting role, but it cannot and should not try to do everything. This is important.

The 'we' is about playing to our collective strengths as a set of individuals and organisations across the city. Achieving our digital ambition will be a team game.

The Coalition will not exclude those who want to help and the approach will provide an easy way for this to happen.

What's the approach?

The work of dotSHF is built around seven domain areas, each with a number of sub-domains.

These are agreed areas of focus. Each domain is focussing on a number of subject areas and a number of key challenge questions to be addressed (the domain groups are agreeing the challenge questions).

- People
- 2. Economy
- 3. Governance
- 4. Infrastructure
- 5. Living
- 6. Mobility
- 7. Resources



Democracy

Suitenironnen

Roadnetwork

Public assets

Connectivity

Water Management

Air Quality

Food and Assiculture

Aulic osoco na radonem

City Offer

LIVING

Healthcare and wellbeing

Assisted living

Housing quality

Energy

Waste Management

Welfare and Social Inclusion

Talent Management

Education

Digital Inclusion

Private transport

City Logistics

Public transport

Security

PEOPLE

MOBILITY

4

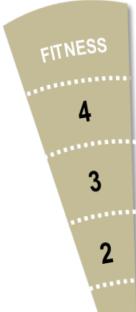
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Note: This sub-domain 'assessments' on this version are illustrative only.



Assessing the territory



Fitness is both about the number and coverage of initiatives as well as the quality and impact of individual activities.

Thriving:

Thriving community with significant numbers of initiatives.

Strengthening:

Strong initiative activity with a growing sub-domain community.

Developing:

Some initiatives established and delivering with more planned.

Emerging:

Limited activity but some early initiatives in place.



Be curious, practical, reforming Creativity and Play - New Business Models - Shared

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Work in the open by default, share and build inclusivity

Making Things Visible - Open Commissioning and Procurement Have a deep regard for the citizen experience of a policy, project or idea

Fairness - Citizen-led Design -Modelling City Systems -Financial Resilience -Community Resilience -Sustainability Harness the power of boundless horizontal communication

Citizen Engagement -Engagement Platforms -Harnessing Movements -Cross-sector Engagement

Embrace the tools and working practices of the internet era

Internet era
Challenge-driven Innovation
- Nurturing Ecosystems Collaboration Platforms Cyber security

Use data to inform decisions and measure outcomes

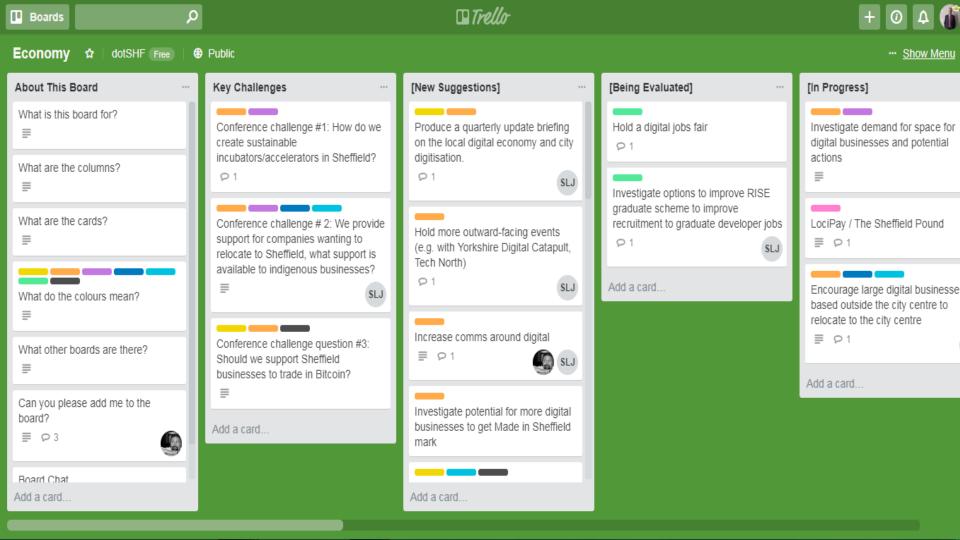
Smart decision-making - Open
Data - Data Sharing Developing a Data Culture

Pursue an iterative, agile approach to development (and governance)

Agility - Permissionless

Develop a stewardship model of city leadership

Stewardship - Collaborative Leadership - Resource Mapping - Smart Civic Dialogue - Privacy and Data Protection



So what have we done so far?

It is still relatively early in our development as a Coalition but we have made good progress in the last six months:

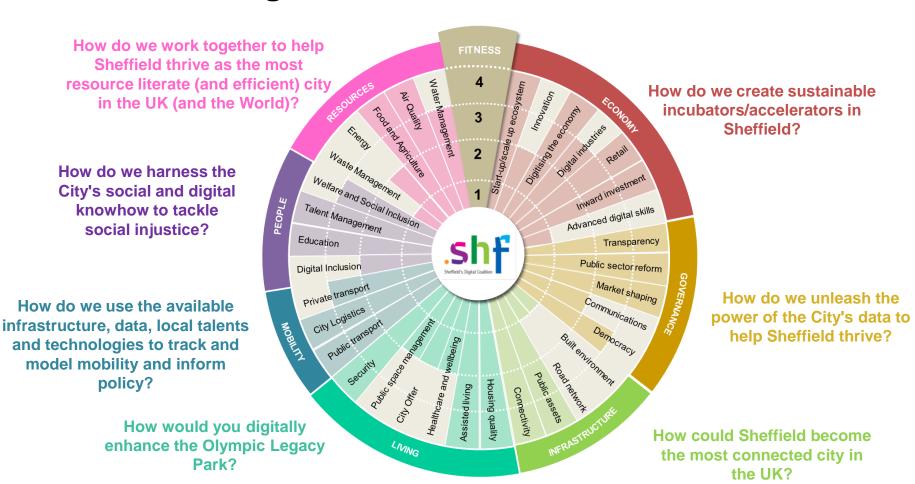
- Scoping: produced an outline / presentation / briefing paper explaining how the Digital Coalition would work and how it will be organised.
- Engaging the communities: hosted a Digital Policy Conflab to bring in opinions and encourage discussion on the concept and how it's articulated.
- Inaugural Digital City Conference: ran a city-wide Digital Conference to bring the Coalition and sub-communities together to meet and present the current initiatives and progress across the domains.
- Published Trello Boards: Crowdsourced public Trello Boards have been published and the first Domain groups have met to prioritise and progress initiatives – Digital Leaders are starting to be identified.
- Agreed Branding: Democratically agreed by the community.

Why this approach?

- We felt it was important to be holistic and inclusive and cover all aspects of the digital economy.
- We want to exploit our existing assets and amplify what we have as much as we can.
- Technology clearly has a role but it must improve the lives of citizens, businesses and visitors, otherwise it is just gadgetry – we don't want that.
- No single body 'owns' the Strategy it is the Coalition's Strategy.
- It was important for us that we built the Coalition from the ground up rather than have a beautifully written top down strategy that has no collective buy in.
- The strategy is to not have a formal strategy but rather to bring people and organisations together to solve city problems and help Sheffield thrive.

Sheffield's Digital Coalition

Domain Challenge Questions





Sheffield Smart Lab was launched in summer 2015 in partnership with Ferovial and supported by both Universities, calling out to entrepreneurs and innovators across the world who had forward-thinking solutions to the challenges faced by Sheffield currently and in the decades to come.

- A short list of city-wide challenges was developed and narrowed to two by a diverse set of city stakeholders:
 - making the city centre more dynamic and
 - increasing the autonomy of citizens in situations of dependence.
- After the programme was launched, entrepreneurs were invited to respond to the challenges. 50 solutions developed by urban entrepreneurs from 10 different countries and selected the best to tackle the Sheffield's strategic challenges.
- Nine winning ideas were selected by a panel of city stakeholders to be taken forward and developed in an 'incubation and acceleration programme' supported by the University of Sheffield and Sheffield Hallam University.



Perfect Patient Pathway

We aim to improve the lives of people with long term conditions through technology.

FIND OUT MORE



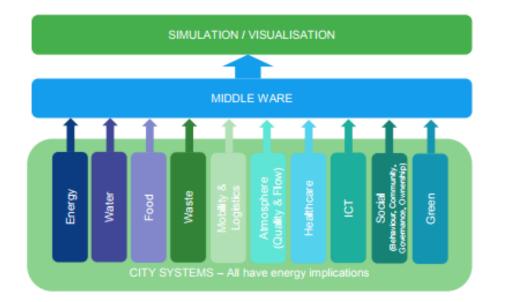


CALLING ALL HACKERS, MAKERS, ENGINEERS, AND INVENTORS!

Can you design and build a creative and practical solution to some of the real-life challenges that we face in our cities today?







The project will be delivered over three years and will be structured in a scalable manner in order to fit the budget:

Year 1 (April 2017 – March 2018) Systems Architecture, middleware and test sensing elements across sensing fields. The purpose is to test deploy across sensing criteria (temperature, thermal imaging, energy metering) to assess the interoperability and functionality of the systems architecture and middleware.

Year 2 (April 2018 – March 2019) district/campus role out to check scalability of technology, short range transmission and data capture technologies. Purchase of Mobile Sensing Platform.

Year 3 (April 2019 - March 2020) citywide deployment, potential focus on school roofs.

Helping to understand and solve Sheffield's air quality challenges.

EVOLUTIONISING AND INNOVATING IN SPORT, HEALTH-CARE, PHYSICAL ACTIVITY AND LEISURE



Olympic Legacy Park and Advanced Wellbeing Research Centre















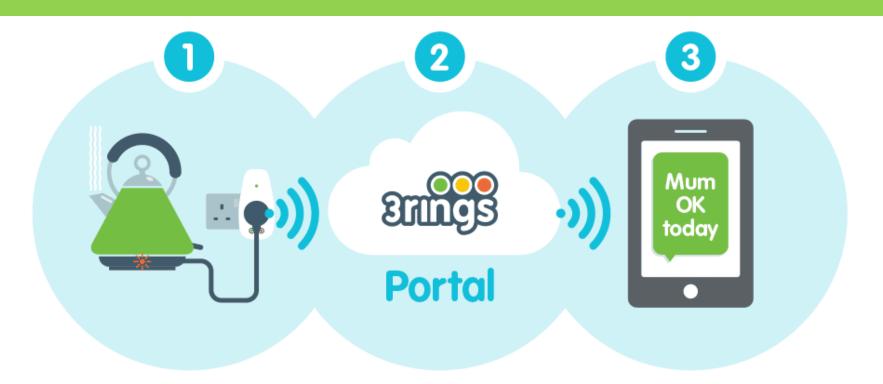






'Preventionomics'

How might we 'risk stratify' the population of Sheffield, and identifying the most effective interventions to improve the overall health and well being of our citizens and communities.





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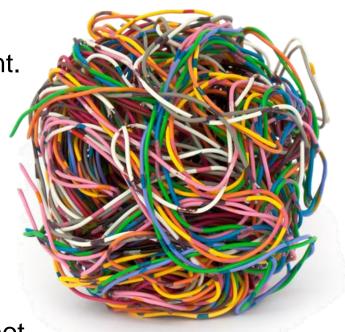


The role of the Public Sector

Anchor institutions – key role.

Promoting inclusive growth and development.

- Set smart city priorities.
- Market shaping.
- Core infrastructure investment.
- Exploiting assets.
- Supporting economic development.
- Building a sustainable digital ecosystem.
- Showing the way and clearing the way but not doing or owning it all.



Some final thoughts

- Context is everything.
- Avoid shiny tech smart city solutions.
- Avoid vendor lock in.
- Keep data open.
- Actually do everything in the open and expect everyone else to.
- Focus on building connections and relationships between sectors – success will be built on effective collaboration and mutually reinforcing support.
- Focus on skills, capabilities and behaviours.
- Solve real city problems through encouraging collaboration and innovation.

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